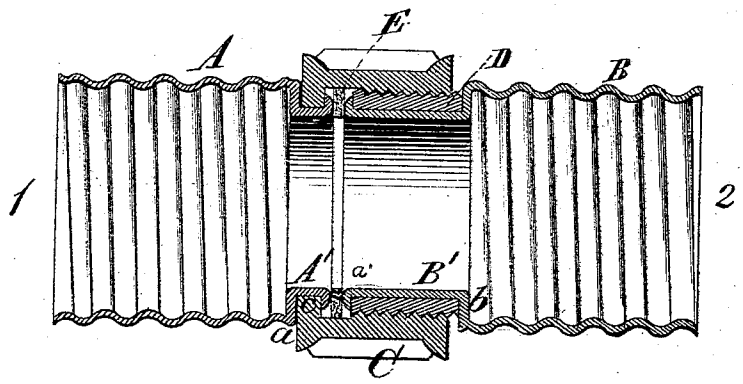
W. A. CASWELL.

Hose-Coupling.

No. 168,970. Patented Oct. 19, 1875.



Witnesses.
A. Ruppert.
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UNITED STATES PATENT OFFICE.

WILLIAM A. CASWELL, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO E. B. PRESTON, OF SAME PLACE.

IMPROVEMENT IN HOSE-COUPLINGS.

Specification forming part of Letters Patent No. **168,970**, dated October 19, 1875; application filed August 6, 1875.

To all whom it may concern:

Be it known that I, WILLIAM A. CASWELL, of Chicago, in the county of Cook and State of Illinois, have invented a certain Improvement in Hose-Couplings, of which the following is a specification:

This invention relates to the male tail-piece of hose-couplings; and it consists in constructing the tail-piece proper with a contracted end. and securing upon this contracted end a screw-threaded sleeve, in the manner hereinafter fully set forth.

The annexed drawing illustrates an axial section of my improved hose-coupling.

The tail-piece marked 1, which carries the swivel C, consists of a tube, the larger end A of which has a screw-thread formed upon it to firmly hold the hose, into the end of which it is screwed. The swivel C has at one end an inwardly-projecting annular shoulder, *c*, the bore of which snugly fits the smaller or contracted end A′ of the tail-piece 1. The swivel, after having been slipped with its shouldered end over the part A′ of tail-piece 1, is confined thereon by expanding the extreme end of part A′ by spinning or otherwise forming a bead or shoulder, *a′*, which, together with the shoulder *a* formed at the junction of the parts A and A′, locks the swivel on the tail-piece so that it cannot be removed therefrom, though it is free to turn thereon. The end B of the tail-piece 2 is screw-threaded in manner like part A of tail-piece 1, and its contracted end B′ receives a screw-threaded sleeve, D, adapted to enter the swivel and engage with the screw-threads therein. The sleeve D is secured on the part B′ of tail-piece 2 by expanding the extreme end of part B′ of the end of the sleeve, the other end of which abuts against the shoulder formed at the junction of the parts B and B′ of the tail-piece. The sleeve D fits tightly on the part B′, and is secured rigidly thereto, so that it cannot turn thereon. The threads on the parts A and B of the respective tail-pieces may have the cross-sectional form shown, or, if preferred, they may be quadrantal in cross-section, as described in another application for Letters Patent filed by me.

In applying this invention to the hose-coupling there described, the swivel and screw-threaded sleeve will, of course, have to be connected respectively to the encircling sleeves, instead of to the tail-pieces directly.

One great advantage that this mode of constructing the tail-piece and connecting the swivel thereto possesses over the ordinary method of connecting these parts is this, that the swivel turning against a metallic shoulder, which prevents it from coming in contact with the end of the hose when properly applied, is always free to turn. A gasket, E, is placed in the swivel against the end of part A′ of tail-piece 1 to form a tight joint in connecting the two ends of the coupling.

What I claim as my invention, and desire to secure by Letters Patent, is—

The male part of a hose-coupling, composed of a tail-piece or its equivalent, and a screw-threaded sleeve, secured upon a contracted end of the tail-piece, substantially as for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM A. CASWELL.

Witnesses:

B. L. PEASE,

GEO. D. PEASE.